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AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, listings, of claims in the application:

Listing of Claims:

Claims 1-18 (cancelled)

- 19. (New): An electrical transformer comprising:
- a coil comprising:
 - a plurality of layers disposed around a central axis, one or more of said layers being conductive and one or more of said layers being insulating;
 - a plurality of cooling ducts disposed between the layers, each of said cooling ducts having an interior passage and being comprised of a first resin; and
 - a second resin encapsulating the layers, said second resin being different than the first resin.
- 20. (New): The electrical transformer of claim 19, wherein the coil has an open core.
 - 21. (New): The electrical transformer of claim 20, wherein the coil is cylindrical.
- 22. (New): The electrical transformer of claim 19, wherein in each of the cooling ducts, fiberglass filaments reinforce the first resin.
- 23. (New): The electrical transformer of claim 22, wherein the second resin is an epoxy resin.
 - 24. (New): The electrical transformer of claim 23, wherein each of the cooling

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ducts is formed by pultrusion.

- 25. (New): The electrical transformer of claim 24, wherein the first resin is a polyester resin.
- 26. (New): The electrical transformer of claim 19, wherein the layers comprise a plurality of conductive layers and a plurality of insulating layers, and wherein the conductive layers are formed from a length of conductive sheet material and the insulating layers are formed from a length of insulating sheet material.
 - 27. (New): An electrical transformer comprising:
 - a coil formed by a method comprising:

providing a plurality of rigid pre-formed cooling ducts, each of said preformed cooling ducts having an enclosed periphery with open ends and an interior passage and being comprised of a first resin reinforced with fiberglass;

providing a length of conductive material and a length of insulating material;

winding the lengths of conductive material and insulating material around a central axis to form a plurality of layers comprising insulating and conductive layers;

during the winding, positioning the pre-formed cooling ducts so as to be disposed between the layers; and

encapsulating the layers in a second resin.

- 28. (New): The electrical transformer of claim 27, wherein each of the cooling ducts has a length that is shorter than an overall length of the coil.
 - 29. (New): The electrical transformer of claim 27, wherein each of the cooling

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ducts has an elliptical cross-section.

- 30. (New): The electrical transformer of claim 27, wherein the first and second resins are different.
- 31. (New) The electrical transformer of claim 30, wherein the second resin is an epoxy resin.
- 32. (New): The electrical transformer of claim 31, wherein the first resin is not an epoxy resin.
- 33. (New): The electrical transformer of claim 32, wherein each of the cooling ducts is formed by pultrusion.
- 34. (New): The electrical transformer of claim 33, wherein the first resin is a polyester resin.
 - 35. (New): A coil for an electrical transformer, said coil comprising:

 a plurality of layers disposed around a central axis, one or more of said layers being conductive and one or more of said layers being insulating;

 a plurality of cooling ducts disposed between the layers, each of said cooling ducts having an interior passage and being comprised of a first resin; and,
 - a second resin encapsulating the layers, said second resin being different than the first resin.
 - 36. (New): The coil of claim 35, wherein the second resin is an epoxy resin.
 - 37. (New): The coil of claim 36, wherein the first resin is not an epoxy resin and

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is reinforced with fiberglass.

- 38. (New): The coil of claim 37, wherein each of the cooling ducts is formed by pultrusion.
 - 39. (New): The coil of claim 38, wherein the first resin is a polyester resin.
- 40. (New): The coil of claim 36, wherein the layers comprise a plurality of conductive layers and a plurality of insulating layers, and wherein the conductive layers are formed from a length of conductive sheet material and the insulating layers are formed from a length of insulating sheet material.